

I claim

1. A mechanical switching apparatus for resolution adjustment, comprising
a case; and

a switch arranged within the case and having a portion exposed out of the

5 case, the switch having a first clamping arm and a second clamping arm
extending therefrom, the first clamping arm having a light emitter thereon and
the second clamping arm having a light receiver thereon, at least two slits sets
with different slit number being provided between the light emitter and the
light receiver and the switch switching the light emitter and the light receiver
10 between the slit sets for achieving different resolution.

2. The mechanical switching apparatus for resolution adjustment as in
claim 1, wherein the slits sets are arranged in a rotational plate in concentric
fashion.

3. The mechanical switching apparatus for resolution adjustment as in
15 claim 1, wherein the slits sets are arranged in multiple rotational plates linked
to each other.

4. The mechanical switching apparatus for resolution adjustment as in
claim 1, wherein the switch is one of a toggle switch, a button switch, a rotary
switch, and a slide switch.